



41

1652-9
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

IN THE APPLICATION OF:

EDGAR BENJAMIN CAHOON

CASE NO.: BB1465 US NA

APPLICATION NO.: 09/909566

CONFIRMATION NO.:

GROUP ART UNIT: 1652

EXAMINER: KATHLEEN M. KERR

FILED: JULY 20, 2001

FOR: A CYTOCHROME P450-DEPENDENT ENZYME ASSOCIATED WITH THE
SYNTHESIS OF THE EPOXY GROUP OF VERNOLIC ACID

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
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Alexandria, VA 22313-1450

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Sir:

In compliance with 37 CFR 1.97 and 1.98, Applicants bring to the attention of the U.S. Patent and Trademark Office information listed on the enclosed PTO/SB/08. A copy of the International Search Report along with copies of those references cited therein are attached.

Enclosed is a Form PTO/SB/17 authorizing the associated fee to be charged to a Deposit Account of **E. I. du Pont de Nemours and Company**.

Respectfully submitted,

Lynne M. Christenbury

LYNNE M. CHRISTENBURY
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Dated: September 26, 2003

Enclosures

10/02/2003 SFELEKE1 00000154 041928 09909566

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Substitute for form 1449/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	1	of	1
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Complete if Known

Application Number	09/909566
Filing Date	July 20, 2001
First Named Inventor	Edgar Benjamin Cahoon
Art Unit	1645
Examiner Name	
Attorney Docket Number	BB1465 US NA

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	MM-DD-YYYY			
	1	WO 98 46762 A	10-22-1998	COMMONWEALTH SCI.		
				AND IND. RES. ORG.		
	2	WO 98 56922 A	12-17-1998	DUPONT		
	3	WO 98 59042 A	12-30-1998	WASH. STATE UNIV.		
				RES. FOUNDATION		

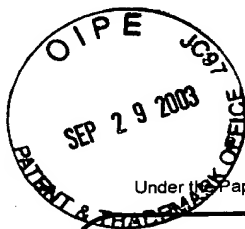
Examiner Signature		Date Considered	
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PTO/SB/08b (08-03)
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of 2

Complete if Known

Application Number	09/909566
Filing Date	July 20, 2001
First Named Inventor	Edgar Benjamin Cahoon
Art Unit	1645
Examiner Name	Kathleen M. Kerr
Attorney Docket Number	BB1465 US

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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	1	CRAIG SEITHER ET AL., Isolation of Cytochrome P-450 Genes from Vernonia Galamensis, Phys., Biochem. & Mol. Biol. of Plant Lipids, pp. 389-391, 1997, XP002080169	<input type="checkbox"/>
	2	ELIZABETH BLEE ET AL., Regio- and Stereoselectivity of Cytochrome P-450 and Peroxygenase-Dependent Formation of Cis-12,13-Epoxy-9(Z)-Octadecenoic Acid (Vernolic Acid) in Euphorbia Lagascae, Biochem. & Biophys. Res. Comm., Vol. 197(2):778-784, December 15, 1993, XP002211220	<input type="checkbox"/>
	3	MAUREEN BAFOR ET AL., Biosynthesis of Vernoleate (cis-12-Epoxyoctadeca-cis-9-enoate) in Microsomal Preparations from Developing Endosperm of Euphorbia lagascae, Arch. of Biochem. & Biophys., Vol. 303(1):145-151, May 15, 1993, XP001087607	<input type="checkbox"/>
	4	EMBL LIBRARY DATABASE ACCESSION NO: Y10490, JULY 17, 1998, C. R. SCHOPFER ET AL., Identification of elicitor-induced cytochrome P450s of soybean (glycine max L.) using differential display of mRNA, XP002211222	<input type="checkbox"/>
	5	EMBL LIBRARY DATABASE ACCESSION NO: O81971, DECEMBER 15, 1998, C. R. SCHOPFER ET AL., Identification of elicitor-induced cytochrome P450s of soybean (glycine max L.) using differential display of mRNA, XP002211223	<input type="checkbox"/>
	6	EMBL LIBRARY DATABASE ACCESSION NO: AF122821, JANUARY 24, 2000, B. J. OH ET AL., A Cytochrome P450 gene is differentially expressed in compatible and incompatible interactions between pepper (Capsicum annuum) and the anthracnose fungus, Colletotrichum gloeosporioides	<input type="checkbox"/>

Examiner
Signature

Date
Considered

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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

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Complete if Known

Application Number	09/909566
Filing Date	July 20, 2001
First Named Inventor	Edgar Benjamin Cahoon
Art Unit	1645
Examiner Name	Kathleen M. Kerr
Attorney Docket Number	BB1465 US NA

Sheet 2 of 2

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	7	DATABASE BIOSCIENCES INFORMATION SERVICE, REINHARD VOGEL ET AL., 1993, Seed oils for new chemical applications: 1. Vernolic acid produced by Euphorbia lagascae, Database Accession No. PREV199396038668, XP002211224	<input type="checkbox"/>
			<input type="checkbox"/>
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¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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LISA Z. TURNER

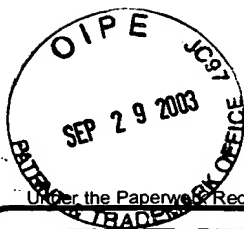
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09/909566
BB1465 US NA
INFORMATION DISCLOSURE STATEMENT
PTO/SB/08A FORM (1)
PTO/SB/08B FORM (2)
INTERNATIONAL SEARCH REPORT
REFERENCES
FEE TRANSMITTAL SHEET
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FEE TRANSMITTAL for FY 2003

Effective 01/01/2003. Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) **180.00**

Complete if Known

Application Number 09/909566
Filing Date July 20, 2001
First Named Inventor Edgar Benjamin Cahoon
Examiner Name Kathleen M. Kerr
Art Unit 1645
Attorney Docket No. BB1465 USNA

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METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit
Account
Number
Deposit
Account
Name

04-1928

E. I. du Pont de Nemours and Company

The Director is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments

☒ Charge any additional fee(s) during the pendency of this application

☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee	
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	

SUBTOTAL (1) (\$) **0.00**

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims -20** = X =
Independent Claims -3** = X =
Multiple Dependent ☐ YES =

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1202 18	2202 9	Claims in excess of 20	
1201 84	2201 42	Independent claims in excess of 3	
1203 280	2203 140	Multiple dependent claim, if not paid	
1204 84	2204 42	** Reissue independent claims over original patent	
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent	

SUBTOTAL (2) (\$) **0.00**

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Small Entity

Fee Code (\$)	Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	180.00
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify) _____

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) **180.00**

SUBMITTED BY

(Complete if applicable)

Name (Print/Type)	Lynne M. Christenbury	Registration No. (Attorney/Agent)	30,971	Telephone	(302) 992-5481
Signature	<i>Lynne M. Christenbury</i>	Date	Sept. 26, 2003		

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